

## ALIGNMENTS

RESULT 1  
U-10-479-446-2

Sequence 2, Application US/10479446

Publication No. US20050112749A1

GENERAL INFORMATION:

APPLICANT: Outrup, Heile

Schulein, Martin

Applicant: Bjornvad, Mads Eskelund

APPLICANT: Gibson, Keith

TITLE OF INVENTION: Endo-beta-1,4-glucanases

FILE REFERENCE: 10184.204-US

CURRENT APPLICATION NUMBER: US/10/479,446

CURRENT FILING DATE: 2003-12-02

NUMBER OF SEQ ID NOS: 11

SOFTWARE: PatentIn version 3.2

SEQ ID NO: 2

LENGTH: 773

TYPE: PRT

ORGANISM: Bacillus sp.

US-10-479-446-2  
Query Match 100.0%; Score 4131; DB 5; Length 773;  
Best Local Similarity 100.0%; Pred. No. 3.5e-298;  
Matches 773; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AEGNTREDFNFKHLNDVNRPEAGALQLOEVDGQNTLVDQHGEKIQLQRMSTGLQWF 60

Db 1 AEGNTREDFNFKHLNDVNRPEAGALQLOEVDGQNTLVDQHGEKIQLQRMSTGLQWF 60

QY 61 PEIINDNAYKALANDWESNMIRLAMVGENYASNPHELIKSRSVKGIDLAENDMVTVD 120

Db 61 PEIINDNAYKALANDWESNMIRLAMVGENYASNPHELIKSRSVKGIDLAENDMVTVD 120

QY 121 WHYHAPGDPDRPYAGAEDFFRDIAALYPNPHIYELANESSNNNGGAGIPNNERGW 180

Db 121 WHYHAPGDPDRPYAGAEDFFRDIAALYPNPHIYELANESSNNNGGAGIPNNERGW 180

QY 121 WHYHAPGDPDRPYAGAEDFFRDIAALYPNPHIYELANESSNNNGGAGIPNNERGW 180

Db 121 WHYHAPGDPDRPYAGAEDFFRDIAALYPNPHIYELANESSNNNGGAGIPNNERGW 180

QY 181 AVKEYADPIVEMRDSGNAADDNIIIVGSPNWSQNPDRDIAALYPNPHIYELANESSNNNGGAGIPNNERGW 240

Db 181 AVKEYADPIVEMRDSGNAADDNIIIVGSPNWSQNPDRDIAALYPNPHIYELANESSNNNGGAGIPNNERGW 240

QY 241 ASTESYPPERTPNSERGNTMSNTVALENGAVATPATGTSQANGDGGPYFEDAWWFL 300

Db 241 ASTESYPPERTPNSERGNTMSNTVALENGAVATPATGTSQANGDGGPYFEDAWWFL 300

QY 241 ASTESYPPERTPNSERGNTMSNTVALENGAVATPATGTSQANGDGGPYFEDAWWFL 300

Db 241 ASTESYPPERTPNSERGNTMSNTVALENGAVATPATGTSQANGDGGPYFEDAWWFL 300

QY 301 NENNISWANSLTNTKNEVNSGAFTPFELGKSNATLDPGDHWAPELSLSGEYRARIK 360

Db 301 NENNISWANSLTNTKNEVNSGAFTPFELGKSNATLDPGDHWAPELSLSGEYRARIK 360

QY 361 GUNYEPIDRTRTKYKULDFNDGKQFGVNSDSPNKEILAVDNTLKGGLYNSDVS 420

Db 361 GUNYEPIDRTRTKYKULDFNDGKQFGVNSDSPNKEILAVDNTLKGGLYNSDVS 420

QY 421 DGFNFWANRSLADGMGKSVDILGAKLTMDVIVDPTTVAIAPOSSGWNPERAVR 480

Db 421 DGFNFWANRSLADGMGKSVDILGAKLTMDVIVDPTTVAIAPOSSGWNPERAVR 480

QY 481 VNAEDFVQDQGKQAGLTGTDGEDAPNPKIAFHEEDNNNNILFVGTDADYLDNT 540

Db 481 VNAEDFVQDQGKQAGLTGTDGEDAPNPKIAFHEEDNNNNILFVGTDADYLDNT 540

QY 481 VNAEDFVQDQGKQAGLTGTDGEDAPNPKIAFHEEDNNNNILFVGTDADYLDNT 540

Db 481 VNAEDFVQDQGKQAGLTGTDGEDAPNPKIAFHEEDNNNNILFVGTDADYLDNT 540

QY 541 KVIGTEVEPVVWIDPKGEAVLPSFEDGTRQGMWAGSSGVKLTALTEBANGSNALSWF 600

Db 541 KVIGTEVEPVVWIDPKGEAVLPSFEDGTRQGMWAGSSGVKLTALTEBANGSNALSWF 600

QY 601 GYPERUKPSWATPRLDIWSLIVRGENDYVADPFLDPRVATEGAMINILVFOPTNG 660

Db 601 GYPERUKPSWATPRLDIWSLIVRGENDYVADPFLDPRVATEGAMINILVFOPTNG 660

## ALIGNMENTS

RESULT 2  
US-11-044-363-2

Sequence 2, Application US/11044363

Publication No. US20050215450A1

GENERAL INFORMATION:

APPLICANT: Outrup, Heile

Schulein, Martin

Applicant: Bjornvad, Mads Eskelund

APPLICANT: Gibson, Keith

TITLE OF INVENTION: Endo-beta-1,4-glucanases

FILE REFERENCE: 10184.204-US

CURRENT APPLICATION NUMBER: US/11/044,363

CURRENT FILING DATE: 2005-01-26

PRIORITY NUMBER: US/10/479,446

PRIORITY FILING DATE: 2003-12-02

NUMBER OF SEQ ID NOS: 11

SOFTWARE: PatentIn version 3.2

SEQ ID NO: 2

LENGTH: 773

TYPE: PRT

ORGANISM: Bacillus sp.

US-11-044-363-2  
Query Match 100.0%; Score 4131; DB 6; Length 773;  
Best Local Similarity 100.0%; Pred. No. 3.5e-298;  
Matches 773; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AEGNTREDFNFKHLNDVNRPEAGALQLOEVDGQNTLVDQHGEKIQLQRMSTGLQWF 60

Db 1 AEGNTREDFNFKHLNDVNRPEAGALQLOEVDGQNTLVDQHGEKIQLQRMSTGLQWF 60

QY 61 PEIINDNAYKALANDWESNMIRLAMVGENYASNPHELIKSRSVKGIDLAENDMVTVD 120

Db 61 PEIINDNAYKALANDWESNMIRLAMVGENYASNPHELIKSRSVKGIDLAENDMVTVD 120

QY 121 WHYHAPGDPDRPYAGAEDFFRDIAALYPNPHIYELANESSNNNGGAGIPNNERGW 180

Db 121 WHYHAPGDPDRPYAGAEDFFRDIAALYPNPHIYELANESSNNNGGAGIPNNERGW 180

QY 121 WHYHAPGDPDRPYAGAEDFFRDIAALYPNPHIYELANESSNNNGGAGIPNNERGW 180

Db 121 WHYHAPGDPDRPYAGAEDFFRDIAALYPNPHIYELANESSNNNGGAGIPNNERGW 180

QY 181 AVKEYADPIVEMRDSGNAADDNIIIVGSPNWSQNPDRDIAALYPNPHIYELANESSNNNGGAGIPNNERGW 240

Db 181 AVKEYADPIVEMRDSGNAADDNIIIVGSPNWSQNPDRDIAALYPNPHIYELANESSNNNGGAGIPNNERGW 240

QY 241 ASTESYPPERTPNSERGNTMSNTVALENGAVATPATGTSQANGDGGPYFEDAWWFL 300

Db 241 ASTESYPPERTPNSERGNTMSNTVALENGAVATPATGTSQANGDGGPYFEDAWWFL 300

QY 241 ASTESYPPERTPNSERGNTMSNTVALENGAVATPATGTSQANGDGGPYFEDAWWFL 300

Db 241 ASTESYPPERTPNSERGNTMSNTVALENGAVATPATGTSQANGDGGPYFEDAWWFL 300

QY 301 NENNISWANSLTNTKNEVNSGAFTPFELGKSNATLDPGDHWAPELSLSGEYRARIK 360

Db 301 NENNISWANSLTNTKNEVNSGAFTPFELGKSNATLDPGDHWAPELSLSGEYRARIK 360

QY 361 GUNYEPIDRTRTKYKULDFNDGKQFGVNSDSPNKEILAVDNTLKGGLYNSDVS 420

Db 361 GUNYEPIDRTRTKYKULDFNDGKQFGVNSDSPNKEILAVDNTLKGGLYNSDVS 420

QY 421 DGFNFWANRSLADGMGKSVDILGAKLTMDVIVDPTTVAIAPOSSGWNPERAVR 480

Db 421 DGFNFWANRSLADGMGKSVDILGAKLTMDVIVDPTTVAIAPOSSGWNPERAVR 480

QY 481 VNAEDFVQDQGKQAGLTGTDGEDAPNPKIAFHEEDNNNNILFVGTDADYLDNT 540

Db 481 VNAEDFVQDQGKQAGLTGTDGEDAPNPKIAFHEEDNNNNILFVGTDADYLDNT 540

QY 541 KVIGTEVEPVVWIDPKGEAVLPSFEDGTRQGMWAGSSGVKLTALTEBANGSNALSWF 600

Db 541 KVIGTEVEPVVWIDPKGEAVLPSFEDGTRQGMWAGSSGVKLTALTEBANGSNALSWF 600

QY 601 GYPERUKPSWATPRLDIWSLIVRGENDYVADPFLDPRVATEGAMINILVFOPTNG 660

Db 601 GYPERUKPSWATPRLDIWSLIVRGENDYVADPFLDPRVATEGAMINILVFOPTNG 660

